

Claims

We claim:

*Sub  
Av*

1. A method for treating gastric acid disorders comprising the step of administering to a patient in need of such treatment a therapeutically effective amount of at least one non-enteric coated proton pump inhibitor in a pharmaceutically acceptable carrier;  
wherein said pharmaceutically acceptable carrier includes a bicarbonate salt of a Group IA metal and a carbonate salt of a Group IA metal.
2. The method of claim 1 wherein said Group IA metal of said bicarbonate salt is sodium.
3. The method of claim 1 wherein said Group IA metal of said carbonate salt is sodium.
4. The method of claim 1 wherein said Group IA metal of said bicarbonate salt is potassium.
5. The method of claim 1 wherein said Group IA metal of said carbonate salt is potassium.
6. The method of claim 1 wherein said non-enteric coated proton pump inhibitor is a substituted benzimidazole or pharmaceutically acceptable salt thereof.
7. The method of claim 6 wherein said substituted benzimidazole is lansoprazole or a pharmaceutically acceptable salt thereof.
8. The method of claim 1 wherein the molar ratio of said bicarbonate

U.S. GOVERNMENT PRINTING OFFICE 1944 10-1200-1

salt of said Group IA metal to said carbonate salt of said Group IA metal is one to one.

5           9. The method of claim 2 wherein said bicarbonate salt of said Group IA metal is sodium bicarbonate.

10          10. The method of claim 3 wherein said carbonate salt of said Group IA metal is sodium carbonate.

15          11. The method of claim 9 wherein said pharmaceutically acceptable carrier contains from about 125 mg to about 1000 mg of sodium bicarbonate.

12. The method of claim 10 wherein said pharmaceutically acceptable carrier contains from about 125 mg to about 1000 mg of sodium carbonate.

15          13. A method for treating gastric acid disorders comprising the step of administering to a patient in need of such treatment a therapeutically effective amount of non-enteric coated lansoprazole or a pharmaceutically acceptable salt thereof in a pharmaceutically acceptable carrier;

20          wherein said pharmaceutically acceptable carrier includes an equimolar ratio of sodium carbonate to sodium bicarbonate.

25          14. The method of claim 13 wherein said pharmaceutically acceptable carrier contains from about 125 mg to about 1000 mg of sodium carbonate, and from about 125 mg to about 1000 mg of sodium bicarbonate.

15          15. A pharmaceutical composition comprising:  
at least one non-enteric coated proton pump inhibitor  
in a pharmaceutically acceptable carrier;

30          wherein said pharmaceutically acceptable carrier includes a  
bicarbonate salt of a Group IA metal and a carbonate salt of a

Group IA metal.

16. The composition of claim 15 wherein said Group IA metal of said bicarbonate salt is sodium.  
5

17. The composition of claim 15 wherein said Group IA metal of said carbonate salt is sodium.

18. The composition of claim 15 wherein said Group IA metal of said  
10 bicarbonate salt is potassium.

19. The composition of claim 15 wherein said Group IA metal of said carbonate salt is potassium.

15 20. The composition of claim 15 wherein said non-enteric coated proton pump inhibitor is a substituted benzimidazole or pharmaceutically acceptable salt thereof.

21. The composition of claim 20 wherein said benzimidazole is  
20 lansoprazole or a pharmaceutically acceptable salt thereof.

22. The composition of claim 15 wherein the molar ratio of said bicarbonate salt of said Group IA metal to said carbonate salt of said Group IA metal is one to one.  
25

23. The composition of claim 16 wherein said bicarbonate salt of said Group IA metal is sodium bicarbonate.

24. The composition of claim 17 wherein said carbonate salt of said  
30 Group IA metal is sodium carbonate.

25. The composition of claim 15 wherein said pharmaceutically acceptable carrier contains from about 125 mg to about 1000 mg of sodium carbonate and from about 125 mg to about 1000 mg of sodium bicarbonate.

5        26. A non-enteric coated lansoprazole composition consisting essentially of:

- a) lansoprazole without enteric coating;
- b) a bicarbonate salt of a Group IA metal; and
- c) a carbonate salt of a Group IA metal.

10

27. The composition of claim 26 wherein said bicarbonate salt of said Group IA metal is sodium bicarbonate.

15        28. The composition of claim 26 wherein said carbonate salt of said Group IA metal is sodium carbonate.

29. The composition of claim 26 having from about 125 mg to about 1000 mg of sodium carbonate, and from about 125 mg to about 1000 mg of sodium bicarbonate.

RECEIVED  
U.S. PATENT AND  
TRADEMARK OFFICE  
MAY 2002